

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY DOCKET NO. 200209329

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VISUAL BOUNDARIES FOR AGGREGATE INFORMATION IN PIXEL-ORIENTED GRAPHS

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119	
			YES: _____	NO: _____
			YES: _____	NO: _____
			YES: _____	NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number 022879

Place Customer
Number Bar Code
Label here

Send Correspondence to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

Direct Telephone Calls To:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Ming C. Hao Citizenship: U.S.

Residence: 4150 Old Ad b R ad Pal Alto CA 94306

Post Office Address: 4150 Old Adobe R ad Palo Alt CA 94306

Inventor's Signature _____

Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Um shwar Dayal Citizenship: India
Residence: 12561 Radoyka Drive Sarat ga CA 95070
Post Office Address: 12561 Rad yka Drive Saratoga CA 95070

Inventor's Signature Date

Full Name of joint inventor: Stephany Kalil Citizenship: U.S.
Residence: 15 Laurel Drive Bedford NH 03110
Post Office Address: 15 Laurel Drive Bedford NH 03110

Inventor's Signature Date

Full Name of joint inventor: Peter Wright Citizenship: U.S.
Residence: 1103 Towne Lake Hills E Woodstock, GA 30189
Post Office Address: 1103 Towne Lake Hills E Woodstock, GA 30189

Inventor's Signature Date

Full Name of joint inventor: Betty Cant Citizenship: U.S.
Residence: 840 Sweetbay Drive Sunnyvale CA 94086
Post Office Address: 840 Sweetbay Drive Sunnyvale CA 94086

Inventor's Signature Date

Full Name of joint inventor: Ming-Chien Shan Citizenship: U.S.
Residence: 13264 Glasgow Court Saratoga CA 95070
Post Office Address: 13264 Glasgow Court Saratoga CA 95070

Inventor's Signature Date

Full Name of joint inventor: Fabio Casati Citizenship: Italian
Residence: 584 Channing Ave Palo Alto CA 94301
Post Office Address: 584 Channing Ave Palo Alto CA 94301

Inventor's Signature Date

Full Name of joint inventor: Vijay Machiraju Citizenship: Indian
Residence: 1025 Bonita Ave Mountain View CA 94040
Post Office Address: 1025 B nita Av M untain View CA 94040

Inventor's Signature Date

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Pankaj K. Garg Citizenship: U.S.
Residence: 1684 Nightingale Av #201 Sunnyvale CA 94087
Post Office Address: 1684 Nightingale Av #201 Sunnyvale CA 94087
[Signature] 10/14/03
Inventor's Signature Date

Full Name of joint inventor: Klaus Wurster Citizenship: Germany
Residence: 11266 Taylor Draper Lane #2614 Austin TX 78759
Post Office Address: 11266 Taylor Draper Lane #2614 Austin TX 78759

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATIONATTORNEY DOCKET NO. 200209329

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VISUAL BOUNDARIES FOR AGGREGATE INFORMATION IN PIXEL-ORIENTED GRAPHS

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119	
			YES: _____	NO: _____
			YES: _____	NO: _____
			YES: _____	NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number 022879Place Customer
Number Bar Code
Label hereSend Correspondence to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

Direct Telephone Calls To:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Ming C. HaoCitizenship: U.S.

Residence:

4150 Old Adobe Road Palo Alto CA 94306

Post Office Address:

4150 Old Adobe Road Palo Alto CA 94306

Inventor's Signature _____

Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Umeshwar Dayal Citizenship: India
Residence: 12561 Radoyka Drive Saratoga CA 95070
Post Office Address: 12561 Radoyka Driv Sarat ga CA 95070
Inventor's Signature _____ Date _____

Full Name of joint inventor: Stephany Kalil Citizenship: U.S.
Residence: 15 Laurel Drive Bedford NH 03110
Post Office Address: 15 Laurel Drive Bedford NH 03110
Inventor's Signature Stephany Kalil Date 10-6-03

Full Name of joint inventor: Peter Wright Citizenship: U.S.
Residence: 1103 Towne Lake Hills E Woodstock, GA 30189
Post Office Address: 1103 Towne Lake Hills E Woodstock, GA 30189
Inventor's Signature _____ Date _____

Full Name of joint inventor: Betty Cant Citizenship: U.S.
Residence: 840 Sweetbay Drive Sunnyvale CA 94086
Post Office Address: 840 Sweetbay Drive Sunnyvale CA 94086
Inventor's Signature _____ Date _____

Full Name of joint inventor: Ming-Chien Shan Citizenship: U.S.
Residence: 13264 Glasgow Court Saratoga CA 95070
Post Office Address: 13264 Glasgow Court Saratoga CA 95070
Inventor's Signature _____ Date _____

Full Name of joint inventor: Fabio Casati Citizenship: Italian
Residence: 584 Channing Ave Palo Alto CA 94301
Post Office Address: 584 Channing Ave Palo Alto CA 94301
Inventor's Signature _____ Date _____

Full Name of joint inventor: Vijay Machiraju Citizenship: Indian
Residence: 1025 Bonita Ave Mountain View CA 94040
Post Office Address: 1025 Bonita Ave Mountain View CA 94040
Inventor's Signature _____ Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continuation)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Pankaj K. Garg Citizenship: U.S.
Residence: 1684 Nightingale Ave #201 Sunnyvale CA 94087
Post Office Address: 1684 Nightingale Ave #201 Sunnyvale CA 94087

Inventor's Signature

Date

Full Name of joint inventor: Klaus Wurster Citizenship: Germany
Residence: 11266 Taylor Draper Lane #2614 Austin TX 78759
Post Office Address: 11266 Taylor Draper Lane #2614 Austin TX 78759

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

(Use Next Page For Additional Inventor(s) Signature(s))

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**
ATTORNEY DOCKET NO. 200209329

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VISUAL BOUNDARIES FOR AGGREGATE INFORMATION IN PIXEL-ORIENTED GRAPHS

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number **022879**

Place Customer
Number Bar Code
Label here

Send Correspondence to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

Direct Telephone Calls To:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Ming C. Hao

Citizenship: U.S.

Residence: 4150 Old Adobe Road Palo Alto CA 94306

Post Office Address: 4150 Old Adobe Road Palo Alto CA 94306

Inventor's Signature _____

Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Um shwar Dayal Citizenship: India
Residence: 12561 Radoyka Driv Saratoga CA 95070
Post Office Address: 12561 Rad yka Drive Saratoga CA 95070

Inventor's Signature _____ Date _____

Full Name of joint inventor: Stephany Kalil Citizenship: U.S.
Residence: 15 Laurel Drive Bedford NH 03110
Post Office Address: 15 Laurel Drive Bedford NH 03110

Inventor's Signature _____ Date _____

Full Name of joint inventor: Peter Wright Citizenship: U.S.
Residence: 1103 Towne Lake Hills E Woodstock, GA 30189
Post Office Address: 1103 Towne Lake Hills E Woodstock, GA 30189

Inventor's Signature _____ Date _____

Full Name of joint inventor: Betty Cant Citizenship: U.S.
Residence: 840 Sweetbay Drive Sunnyvale CA 94086
Post Office Address: 840 Sweetbay Drive Sunnyvale CA 94086

Inventor's Signature _____ Date _____

Full Name of joint inventor: Ming-Chien Shan Citizenship: U.S.
Residence: 13264 Glasgow Court Saratoga CA 95070
Post Office Address: 13264 Glasgow Court Saratoga CA 95070

Inventor's Signature _____ Date _____

Full Name of joint inventor: Fabio Casati Citizenship: Italian
Residence: 584 Channing Ave Palo Alto CA 94301
Post Office Address: 584 Channing Ave Palo Alto CA 94301

Inventor's Signature _____ Date _____

Full Name of joint inventor: Vijay Machiraju Citizenship: Indian
Residence: 1025 B nita Av Mountain View CA 94040
Post Office Address: 1025 Bonita Ave Mountain View CA 94040

Inventor's Signature _____ Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Pankaj K. Garg Citizenship: U.S.
Residence: 1684 Nightingale Ave #201 Sunnyvale CA 94087
Post Office Address: 1684 Nightingale Av #201 Sunnyval CA 94087

Inventor's Signature

Date

Full Name of joint inventor: Klaus Wurster Citizenship: Germany
Residence: 11266 Taylor Draper Lane #2614 Austin TX 78759
Post Office Address: 11266 Taylor Draper Lane #2614 Austin TX 78759

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATIONATTORNEY DOCKET NO. 200209329

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VISUAL BOUNDARIES FOR AGGREGATE INFORMATION IN PIXEL-ORIENTED GRAPHS

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number 022879Place Customer
Number Bar Code
Label hereSend Correspondence to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

Direct Telephone Calls To:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Ming C. HaCitizenship: U.S.Residence: 4150 Old Adobe Road Palo Alto CA 94306Post Office Address: 4150 Old Adobe Road Palo Alto CA 94306

Inventor's Signature _____

Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Umeshwar Dayal Citizenship: India
Residence: 12561 Radoyka Drive Saratoga CA 95070
Post Office Address: 12561 Radoyka Drive Saratoga CA 95070

Inventor's Signature _____

Date _____

Full Name of joint inventor: Stephany Kalil Citizenship: U.S.
Residence: 15 Laurel Drive Bedford NH 03110
Post Office Address: 15 Laurel Drive Bedford NH 03110

Inventor's Signature _____

Date _____

Full Name of joint inventor: Peter Wright Citizenship: U.S.
Residence: 1103 Towne Lake Hills E Woodstock, GA 30189
Post Office Address: 1103 Towne Lake Hills E Woodstock, GA 30189

Inventor's Signature Peter Wright

Date 10/8/03

Full Name of joint inventor: Betty Cant Citizenship: U.S.
Residence: 840 Sweetbay Drive Sunnyvale CA 94086
Post Office Address: 840 Sweetbay Drive Sunnyvale CA 94086

Inventor's Signature _____

Date _____

Full Name of joint inventor: Ming-Chien Shan Citizenship: U.S.
Residence: 13264 Glasgow Court Saratoga CA 95070
Post Office Address: 13264 Glasgow Court Saratoga CA 95070

Inventor's Signature _____

Date _____

Full Name of joint inventor: Fabio Casati Citizenship: Italian
Residence: 584 Channing Ave Palo Alto CA 94301
Post Office Address: 584 Channing Ave Palo Alto CA 94301

Inventor's Signature _____

Date _____

Full Name of joint inventor: Vijay Machiraju Citizenship: Indian
Residence: 1025 Bonita Ave Mountain View CA 94040
Post Office Address: 1025 Bonita Ave Mountain View CA 94040

Inventor's Signature _____

Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Pankaj K. Garg Citizenship: U.S.
Residence: 1684 Nightingale Ave #201 Sunnyvale CA 94087
Post Office Address: 1684 Nightingale Ave #201 Sunnyvale CA 94087

Inventor's Signature

Date

Full Name of joint inventor: Klaus Wurster Citizenship: Germany
Residence: 11266 Taylor Draper Lane #2614 Austin TX 78759
Post Office Address: 11266 Taylor Draper Lane #2614 Austin TX 78759

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**
ATTORNEY DOCKET NO. 200209329

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VISUAL BOUNDARIES FOR AGGREGATE INFORMATION IN PIXEL-ORIENTED GRAPHS

the specification of which is attached hereto unless the following box is checked:

 () was filed on _____ as US Application No. or PCT International Application
 Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number 022879Place Customer
Number Bar Code
Label here
 Send Correspondence to:
 HEWLETT-PACKARD COMPANY
 Intellectual Property Administration
 P.O. Box 272400
 Fort Collins, Colorado 80527-2400

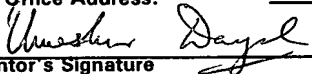
Direct Telephone Calls To:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Ming C. HaCitizenship: U.S.Residence: 4150 Old Adobe Road Palo Alto CA 94306Post Office Address: 4150 Old Adobe Road Palo Alto CA 94306Inventor's Signature Ming C. HaDate 10/7/03

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**


ATTORNEY DOCKET NO. 200209329

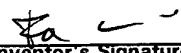
Full Name of joint inventor: Umeshwar Dayal Citizenship: India
Residence: 12561 Radoyka Drive Saratoga CA 95070
Post Office Address: 12561 Rad yka Driv Saratoga CA 95070
Inventor's Signature  Date 7 October 2003

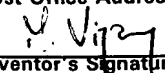
Full Name of joint inventor: Stephany Kalil Citizenship: U.S.
Residence: 15 Laurel Drive Bedford NH 03110
Post Office Address: 15 Laurel Drive Bedford NH 03110
Inventor's Signature _____ Date _____

Full Name of joint inventor: Peter Wright Citizenship: U.S.
Residence: 1103 Towne Lake Hills E Woodstock, GA 30189
Post Office Address: 1103 Towne Lake Hills E Woodstock, GA 30189
Inventor's Signature _____ Date _____

Full Name of joint inventor: Betty Cant Citizenship: U.S.
Residence: 840 Sweetbay Drive Sunnyvale CA 94086
Post Office Address: 840 Sweetbay Drive Sunnyvale CA 94086
Inventor's Signature _____ Date _____

Full Name of joint inventor: Ming-Chien Shan Citizenship: U.S.
Residence: 13264 Glasgow Court Saratoga CA 95070
Post Office Address: 13264 Glasgow Court Saratoga CA 95070
Inventor's Signature  Date 10/7/2003

Full Name of joint inventor: Fabio Casati Citizenship: Italian
Residence: 584 Channing Ave Palo Alto CA 94301
Post Office Address: 584 Channing Ave Palo Alto CA 94301
Inventor's Signature  Date 10/7/2003

Full Name of joint inventor: Vijay Machiraju Citizenship: Indian
Residence: 1025 Bonita Ave Mountain View CA 94040
Post Office Address: 1025 B nita Ave Mountain View CA 94040
Inventor's Signature  Date 10/7/2003

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continuation)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Pankaj K. Garg Citizenship: U.S.
Residence: 1684 Nightingale Ave #201 Sunnyvale CA 94087
Post Office Address: 1684 Nightingale Av #201 Sunnyvale CA 94087

Inventor's Signature

Date

Full Name of joint inventor: Klaus Wurster Citizenship: Germany
Residence: 11266 Taylor Draper Lane #2614 Austin TX 78759
Post Office Address: 11266 Taylor Draper Lane #2614 Austin TX 78759

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature

Date

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**ATTORNEY DOCKET NO. 200209329

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VISUAL BOUNDARIES FOR AGGREGATE INFORMATION IN PIXEL-ORIENTED GRAPHS

the specification of which is attached hereto unless the following box is checked:

() was filed on _____ as US Application No. or PCT International Application
Number _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	FILING DATE

U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number 022879Place Customer
Number Bar Code
Label hereSend Correspondence to:
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

Direct Telephone Calls To:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Ming C. HaoCitizenship: U.S.Residence: 4150 Old Ad be R ad Palo Alto CA 94306Post Office Address: 4150 Old Ad be R ad Palo Alt CA 94306

Inventor's Signature _____

Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continued)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Umeshwar Dayal Citizenship: India
Residence: 12561 Rad yka Drive Saratoga CA 95070
Post Office Address: 12561 Rad yka Driv Sarat ga CA 95070

Inventor's Signature _____ Date _____

Full Name of joint inventor: Stephany Kalil Citizenship: U.S.
Residence: 15 Laurel Drive Bedford NH 03110
Post Office Address: 15 Laurel Drive Bedford NH 03110

Inventor's Signature _____ Date _____

Full Name of joint inventor: Peter Wright Citizenship: U.S.
Residence: 1103 Towne Lake Hills E Woodstock, GA 30189
Post Office Address: 1103 Towne Lake Hills E Woodstock, GA 30189

Inventor's Signature _____ Date _____

Full Name of joint inventor: Betty Cant Citizenship: U.S.
Residence: 840 Sweetbay Drive Sunnyvale CA 94086
Post Office Address: 840 Sweetbay Drive Sunnyvale CA 94086

Inventor's Signature Betty Cant Date 10/22/03

Full Name of joint inventor: Ming-Chien Shan Citizenship: U.S.
Residence: 13264 Glasgow Court Saratoga CA 95070
Post Office Address: 13264 Glasgow Court Saratoga CA 95070

Inventor's Signature _____ Date _____

Full Name of joint inventor: Fabio Casati Citizenship: Italian
Residence: 584 Channing Ave Palo Alto CA 94301
Post Office Address: 584 Channing Ave Palo Alto CA 94301

Inventor's Signature _____ Date _____

Full Name of joint inventor: Vijay Machiraju Citizenship: Indian
Residence: 1025 Bonita Ave Mountain View CA 94040
Post Office Address: 1025 B nita Ave Mountain View CA 94040

Inventor's Signature _____ Date _____

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION (continu d)**

ATTORNEY DOCKET NO. 200209329

Full Name of joint inventor: Pankaj K. Garg Citizenship: U.S.
Residence: 1684 Nightingale Av #201 Sunnyvale CA 94087
Post Office Address: 1684 Nightingale Ave #201 Sunnyvale CA 94087

Inventor's Signature Date

Full Name of joint inventor: Klaus Wurster Citizenship: Germany
Residence: 11266 Taylor Draper Lane #2614 Austin TX 78759
Post Office Address: 11266 Taylor Draper Lane #2614 Austin TX 78759

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date

Full Name of joint inventor: _____ Citizenship: _____
Residence: _____
Post Office Address: _____

Inventor's Signature Date